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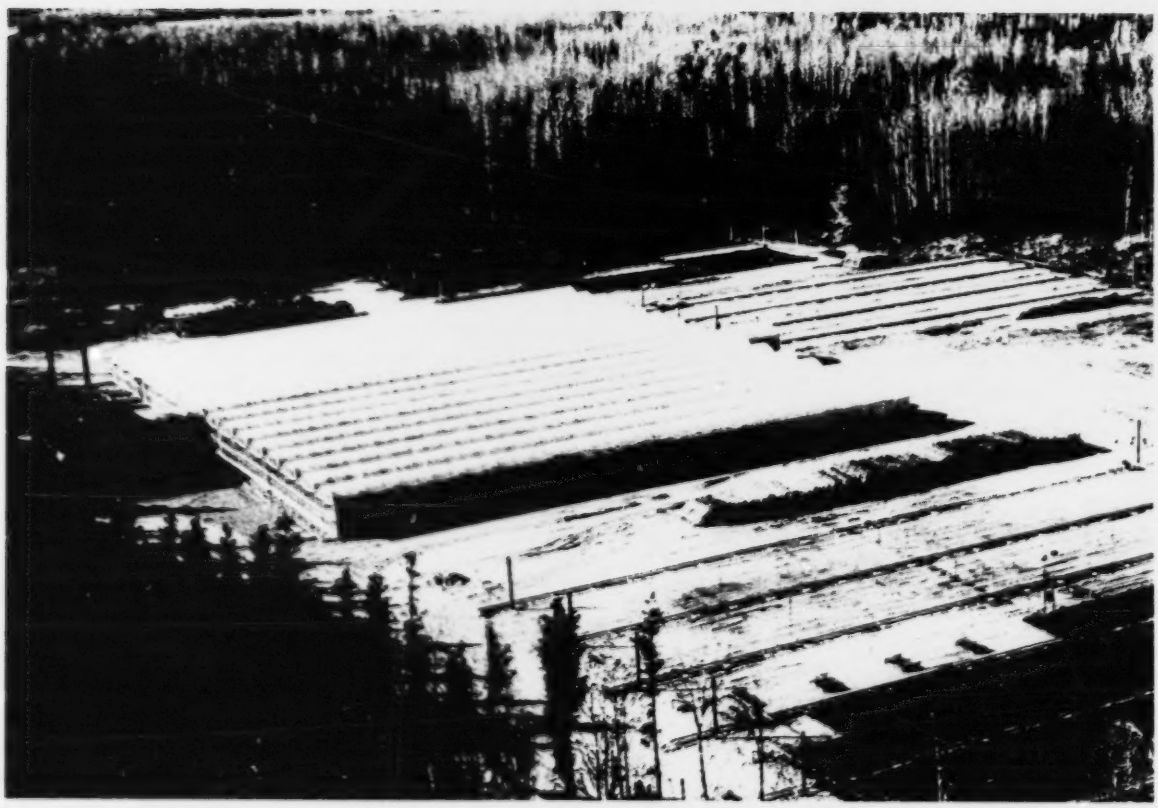
Ontario Ministry of Natural Resources

Joint Report No. 7

Containerized Seedling Production Statistics for Ontario, 1983

J. B. Scarratt



Published under the auspices of the Container Stock Working Group of the Canada-Ontario Joint Forestry Research Committee

86-04415/

CONTAINERIZED SEEDLING PRODUCTION STATISTICS FOR ONTARIO, 1983

J.B. SCARRATT

under the auspices of the

CONTAINER STOCK WORKING GROUP OF THE

CANADA-ONTARIO JOINT FORESTRY RESEARCH COMMITTEE

published by

GREAT LAKES FORESTRY CENTRE

CANADIAN FORESTRY SERVICE

GOVERNMENT OF CANADA

1985

JOINT REPORT NO. 7

©Minister of Supply and Services Canada 1985
Catalogue No. Fo29-11/7E
ISBN 0-662-14432-5
ISSN 0823-8170

Additional copies of this publication are available at no charge from:

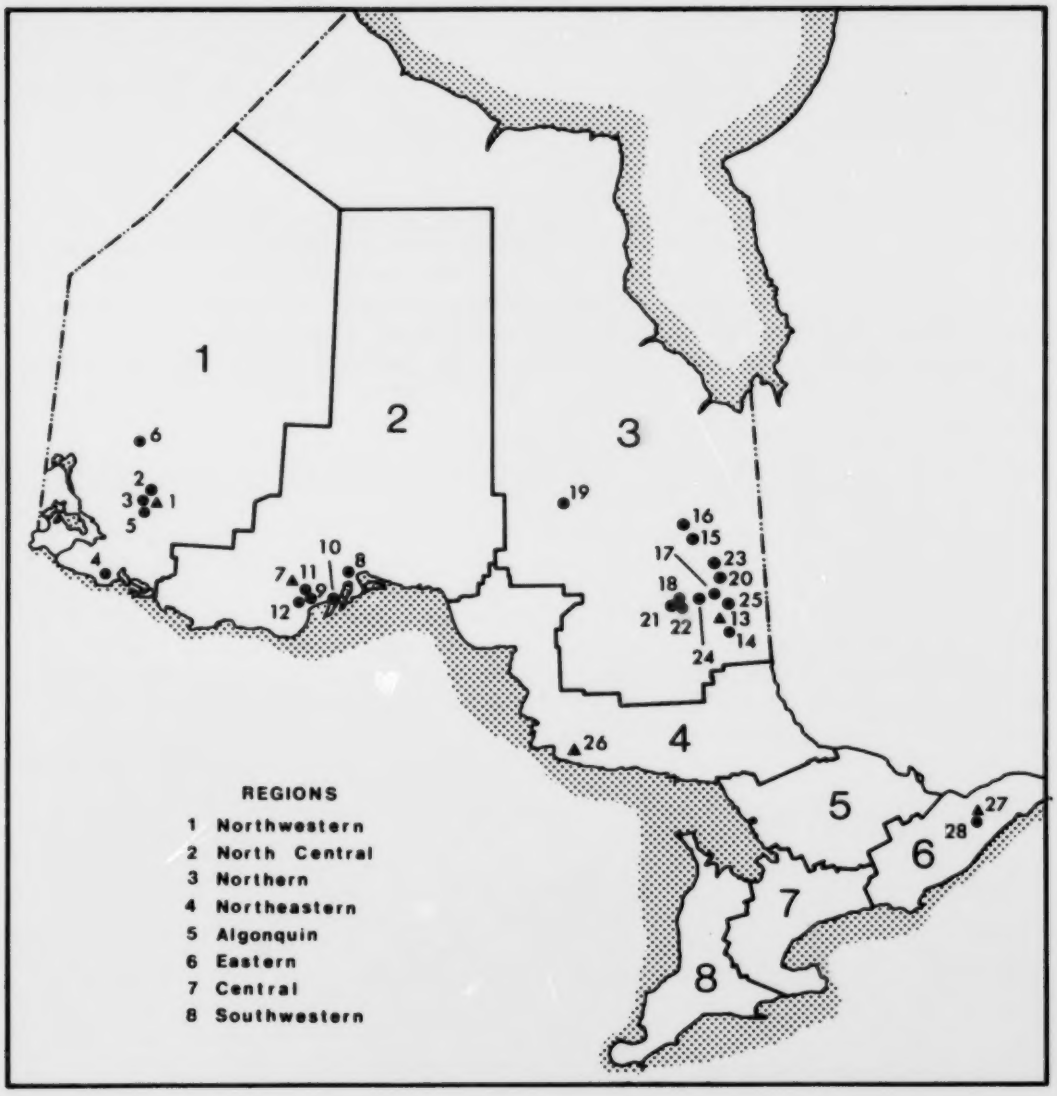
Communications Services
Great Lakes Forestry Centre
Canadian Forestry Service
Government of Canada
P.O. Box 490
Sault Ste. Marie, Ontario
P6A 5M7

ABSTRACT

In Ontario, five provincial crown and 23 private sector nurseries produced 54.7 million containerized tree seedlings for reforestation purposes during 1983, 78% more than in 1982. This represents approximately 45% of all planting stock produced in 1983. Private sector nurseries accounted for approximately 76% of container production, increasing their output 142% over that of the previous year. Statistics are presented to contrast production of containerized and bare-root stock by administrative region, nursery and species.

RÉSUMÉ

En 1983, cinq pépinières provinciales et 23 pépinières privées de l'Ontario ont produit 54.7 millions de semis d'arbres en récipients destinés au reboisement en 1983, soit 78% de plus qu'en 1982 et 45% environ de la production annuelle de matériel de plantation de toute nature. Les pépinières privées ont fourni 76% de la production et ont ainsi augmenté leur production de 142% en un an. Les statistiques sont présentées de façon à permettre la comparaison de la production de plants en récipients et de plants à racines nues selon la région administrative, la pépinière et l'espèce.



Frontispiece. Container production nurseries in Ontario, 1983. (Large numbers indicate administrative regions; small numbers indicate locations of nurseries listed in Table 4: ▲ - provincial crown nurseries, ● - private sector nurseries).

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Cover photo: Aerial view of Northern Greenhouse Farms Ltd., near Iroquois Falls, Ontario (photo courtesy of Ray Hong, Ontario Ministry of Natural Resources, Kirkland Lake).

PRODUCTION HIGHLIGHTS

This is the second in a series of annual reports summarizing containerized tree seedling production statistics for the province of Ontario. The first report, for calendar year 1982, showed that five provincial crown and 12 private sector nurseries produced a total of 31 million containerized seedlings for reforestation purposes. This represented approximately one third of all planting stock produced during that year (total 92 million). Private sector nurseries accounted for approximately 56% of container stock production.

Stimulated by pressures for a substantially expanded forest renewal program, planting stock production continued to show a strong increase during 1983. Total production of all stock types reached 120.5 million trees, an increase of 31% over the previous year. However, by far the largest portion of this increase, 84%, was in the production of containerized seedlings. This resulted in a significant shift in the status of the container program. Consequently, whereas containers accounted for only one third of all stock produced in 1982, by 1983 container production, at 45%, was almost on a par with that of bare-root stock.

Containerized seedling production rose to 54.7 million in 1983, an increase of 78% over 1982. Most of the additional production came from private sector nurseries under contract to the Ontario Ministry of Natural Resources (OMNR), the number of which increased from 12 to 23, located principally in the Northwestern, North Central and Northern regions (frontispiece). Total private sector production increased 142% to 41.7 million seedlings in 1983. In contrast, container production by the five provincial crown nurseries remained relatively constant at 13 million seedlings, although their relative contribution declined, dropping from 44% to 24% of shippable seedlings.

Most of the data for this report were supplied by OMNR regional members of the Container Stock Working Group of the Canada-Ontario Joint Forestry Research Committee. For the Central and Southwestern regions, planting stock production data were provided by the respective provincial nursery superintendents. The assistance of all contributors is gratefully acknowledged.

EXPLANATORY NOTES ON TABLES

The format is essentially the same as that used for the first report. The principal change is in Table 4, where information has been added (1) to indicate the type of greenhouse heating method used, and (2) to summarize crop schedules at individual nurseries.

1. All data are for calendar year 1983. Container stock production is presented in terms of the total number of cavities sown and numbers of shippable seedlings produced[1]. The latter includes seedlings produced in 1983 for shipping in the current year (1983) or for overwintering and shipping the following spring (1984). It does not include overwintered seedlings shipped in the spring of 1983. Data for bare-root production include only seedlings shipped during calendar year 1983.

2. Data for container production exclude containerized seedlings grown for use in the production of accelerated bare-root transplant stock.

3. Accelerated bare-root transplant data (Accel. transplants; tables 5-7) include production from both containerized and bare-root seedlings.

4. **NURSERY OWNERSHIP**

   All container production reported was carried out in provincial crown (i.e. OMNR) or private sector nurseries under contract to OMNR. Only those private nurseries with seedling production contracts are reported here. There were no container nurseries operated by the forest industry in Ontario in 1983.

5. **GREENHOUSE TYPE**

   i. **Heated houses** with conventional heating systems.

   ii. **Unheated houses** with assisted cooling (e.g., thermostatically controlled vents and extractor fans, or other mechanical cooling devices).

   iii. **Shelterhouses** - unheated houses or other protective structures with only passive cooling (i.e., no mechanical cooling devices). In 1983, no nursery reported using such structures in the production of container stock.

---

[1] The use of "shippable seedlings produced" rather than "seedlings shipped" is determined by the desire for an accurate portrayal of container nursery production on a crop-year basis. This approach avoids the problem of seedlings produced to acceptable standards but for some reason not shipped (inherent in the reporting of "seedlings shipped"), and serves better to quantify actual nursery productivity in a given year.

6. TABLE 4 - CONTAINER NURSERY DIRECTORY

The following information precedes the entry for an individual nursery:

- nursery number (same sequence as on frontispiece map)
- (C) or (P) indicates crown or privately operated nursery, respectively
- mailing address
- name of nursery superintendent or owner
- telephone number
- container system used and percentage of use:

  PP4 - FH408 Japanese paperpot
  SLF - Spencer-Lemaire "Ferdinand"
  MP1 - Can-Am Multipot 1
  MP3 - Can-Am Multipot 3
  LT - Ray Leach Super "Stubby"

For each entry:

- greenhouse description, in parentheses, follows figure for greenhouse capacity, viz:

  1st letter (greenhouse style)
  F - free standing
  G - gutter connected

  2nd letter (greenhouse cover material)
  f - fiberglass or rigid plastic
  g - glass
  p - polyethylene

  3rd letter (heating method)
  a - forced air/oil
  b - forced air/propane
  c - forced air/natural gas
  d - forced air/gas waste heat
  e - hot water/oil
  f - hot water/propane
  g - hot water/natural gas
  h - hot water/wood

- species abbreviations:

  bS - black spruce
  wS - white spruce
  jP - jack pine
  rP - red pine
  wP - white pine
  sP - Scots pine
  L - larch (tamarack)
  OC - other conifers

- crop schedule:

  This provides an estimate of (1) the percentage of current and overwinter production for each species, *based on cavities sown*, and (2) the average length of production period for each growing regime, calculated on the basis of the number of weeks between sowing and shipping.

Table 1. Summary of greenhouse capacities (m^2) for containerized seedling production by region and ownership category, 1983[a].

Region	OMNR capacity			Private capacity			Total capacity		
	Heated houses	Unheated houses	Shelter-houses	Heated houses	Unheated houses	Shelter-houses	Heated houses	Unheated houses	Shelter-houses
Northwestern	2 230	-	-	4 692	-	-	6 922	-	-
North Central	1 300	-	-	14 604	-	-	15 904	-	-
Northern	4 700	-	-	27 045	-	-	31 745	-	-
Northeastern	2 395	2 096	-	-	-	-	2 395	2 096	-
Eastern	900	300	1 200	566	280	-	1 466	580	1 200
Central[b]	1 663	-	4 830	-	-	-	1 663	-	4 830
	13 188	2 396	6 030	46 907	280	-	60 095	2 676	6 030

[a] Whereas private greenhouses produced only container stock, several OMNR nurseries used their greenhouses principally for cuttings and the production of seedlings for accelerated bare-root stock.

[b] Orono nursery

Table 2. Summary of container system use (cavities sown) by region, 1983.

Region	Spencer-Lemaire	Japanese paperpot	Can-Am Multipot	Other
	('000 cavities sown)			
Northwestern	12 699	-	-	-
North Central	2 520	12 010	280	-
Northern	-	37 108	40	56
Northeastern	-	4 328	-	88
Eastern	-	-	1 493	-
	15 219	53 446	1 813	144
% of total	21.5	75.7	2.6	0.2

Table 3. Summary of container system use (shippable seedlings produced) by region, 1983.

Region	Spencer-Lemaire	Japanese paperpot	Can-Am Multipot	Other
	('000 shippable seedlings)			
Northwestern	11 505	-	-	-
North Central	2 160	10 050	240	-
Northern	-	25 302	20	27
Northeastern	-	3 982	-	81
Eastern	-	-	1 312	-
	13 665	39 334	1 572	108
% of total	25.0	71.9	2.9	0.2

Table 4. Container production nurseries by region.

Greenhouse capacity (m^2) and style				Seedling production ('000 cavities sown)		Seedling production ('000 shippable seedlings)		Crop schedule	
Heated houses	Unheated houses	Shelter-houses		Heated houses	Unheated houses	Heated houses	Unheated houses	Current crop	Over-wintered
NORTHWESTERN REGION									
1(C) DRYDEN TREE NURSERY, ONTARIO MINISTRY OF NATURAL RESOURCES, P.O. BOX 90, WABIGOON, ONTARIO, P0V 2W0									
[Malcolm McIntyre. Tel. (807) 938-6326]									
[SLF-100%]									
2230 (Ffa/b)	-	-	jP	1279	-	1279[a]	-	92/16	8/52
			bS	2407	-	2407[a]	-	6/19	94/64
			wS	57	-	57[a]	-	-	100/64
				3743	-	3743	-		
2(P) COOK LAKE NURSERIES, RR#1, SITE 28 BOX 20, DRYDEN, ONTARIO, P8N 2Y4									
[Bill Schneider. Tel. (807) 937-5381]									
[SLF-100%]									
668 (Fpb)	-	-	jP	-	-	-	-	-	-
			bS	690	-	685	-	-	100/52
				690	-	685	-		
3(P) EVERGREEN FARMS, 48 PRINCESS STREET, DRYDEN, ONTARIO, P8N 1C7									
[Charles Queau. Tel. (807) 937-5239]									
[SLF-100%]									
1212 (Fpc)	-	-	jP	1265	-	1130	-	100/14	-
			bS	1265	-	1165	-	-	100/52
				2530	-	2295	-		

[a] All containers restocked to 100%

(cont'd)

Table 4. Container production nurseries by region (cont'd).

Greenhouse capacity (m^2) and style				Seedling production ('000 cavities sown)		Seedling production ('000 shippable seedlings)		Crop schedule	
Heated houses	Unheated houses	Shelter-houses		Heated houses	Unheated houses	Heated houses	Unheated houses	Current crop	Over-wintered
			4(P) RIVERSIDE NURSERY, RR#2, DEVLIN, ONTARIO, P0W 1C0						
			[Nick Mutz. Tel. (807) 486-3421]						
			[SLF-100%]						
440 (Ffa)	-	-	jP	860	-	661	-	50/14	50/52
			bS	-	-	-	-	-	-
				860	-	661	-		
			5(P) TAMARAC NURSERIES, RR#2, DRYDEN, ONTARIO, P8N 2Y5						
			[David Lick. Tel. (807) 937-6621]						
			[SLF-100%]						
722 (Fpe/h)	-	-	jP	690	-	678	-	100/14	-
			bS	690	-	608	-	-	100/52
				1380	-	1286	-		
			6(P) WELLAIR CONCEPTS INC., P.O. BOX 339, EAR FALLS, ONTARIO, P0V 1T0						
			[Gordon Hicks. Tel. (807) 222-2325]						
			[SLF-100%]						
1650 (Fpc)	-	-	jP	1748	-	1260	-	100/14	-
			bS	1748	-	1575	-	-	100/52
				3496	-	2835	-		

(cont'd)

Table 4. Container production nurseries by region (cont'd).

Greenhouse capacity (m^2) and style				Seedling production ('000 cavities sown)		Seedling production ('000 shippable seedlings)		Crop schedule	
Heated houses	Unheated houses	Shelter-houses		Heated houses	Unheated houses	Heated houses	Unheated houses	Current crop	Over-wintered
NORTH CENTRAL REGION									
7(C) THUNDER BAY FOREST STATION, ONTARIO MINISTRY OF NATURAL RESOURCES, RR#1, THUNDER BAY, ONTARIO, P7C 4T9									
[Bob Klapprat. Tel. (807) 939-2561]									
[SLF-90%; MP1-10%]									
1300 (Fpc)	-	-	jP	1400	-	1200	-	100/16	-
			bS	1400	-	1200	-	-	100/52
				2800	-	2400	-		
8(P) A & R GREENHOUSES LTD, RR#1, HURKETT, ONTARIO, P0T 1K0									
[Frank Bauer and John Asperjan. Tel. (807) 857-2471/857-2286]									
[PP4-100%]									
1605 (Fpc)	-	-	jP	1630	-	1420	-	-	100/52
			bS	-	-	-	-	-	-
				1630	-	1420	-		
9(P) CREEKSIDE NURSERY, RR#11, THUNDER BAY, ONTARIO, P7B 5E2									
[Dennis Trevisanutto. Tel. (807) 345-3131]									
[PP4-100%]									
3211 (Fpc)	-	-	jP	-	-	-	-	-	-
			bS	2688	-	2050	-	-	100/52
				2688	-	2050	-		

(cont'd)

Table 4. Container production nurseries by region (cont'd).

Greenhouse capacity (m^2) and style				Seedling production ('000 cavities sown)		Seedling production ('000 shippable seedlings)		Crop schedule	
Heated houses	Unheated houses	Shelter-houses		Heated houses	Unheated houses	Heated houses	Unheated houses	Current crop	Over-wintered
10(P) GRUNDY'S NURSERIES LTD., PASS LAKE, ONTARIO, P0T 2M0									
[Errol Grundy. Tel. (807) 977-2832/977-2690]									
[PP4-100%]									
1605 (Fpc)	-	-	jP	-	-	-	-	-	-
			bS	1422	-	1250	-	-	100/52
				1422	-	1250	-		
11(P) HILLS GREENHOUSES LTD., OLIVER ROAD, MURILLO, THUNDER BAY, ONTARIO, P0T 2G0									
[Hermann Vanduyn and Ralph Meems. Tel. (807) 935-2626]									
[PP4-100%]									
3612 (Fpc)	-	-	jP	-	-	-	-	-	-
			bS	2720	-	2300	-	-	100/52
				2720	-	2300	-		
12(P) HODWITZ ENTERPRISES LTD., RR#6, THUNDER BAY, ONTARIO, P7C 5M5									
[Jim and Dan Hodwitz. Tel. (807) 939-6027]									
[PP4-100%]									
3612 (Fpc)	-	-	jP	-	-	-	-	-	-
959 (Fge)			bS	3550	-	3030	-	-	100/52
				3550	-	3030	-		

(cont'd)

Table 4. Container production nurseries by region (cont'd).

Greenhouse capacity (m^2) and style				Seedling production ('000 cavities sown)		Seedling production ('000 shippable seedlings)		Crop schedule	
Heated houses	Unheated houses	Shelter-houses		Heated houses	Unheated houses	Heated houses	Unheated houses	Current crop	Over-wintered
NORTHERN REGION									
13(C) SWASTIKA FOREST STATION, ONTARIO MINISTRY OF NATURAL RESOURCES, P.O. BOX 129, SWASTIKA, ONTARIO, P0K 1T0									
[Lucien J. Forcier. Tel. (705) 567-3372]									
[PP4-100%]									
722 (Gfb)	-	-	jP	-	-	-	-	-	-
3978 (Fpb)			bS	2435	-	1973	-	-	100/55
				2435	-	1973	-		
14(P) AIDIE CREEK GARDENS, RR#3, ENGLEHART, ONTARIO, P0J 1H0									
[Charles Warner. Tel. (705) 544-2474]									
[PP4-100%]									
4375 (Fpb)	-	-	jP	994	-	742	-	-	100/50
			bS	2421	-	1762	-	-	100/52
				3415	-	2504	-		
15(P) BIRCHILL NURSERIES INC., RR#2, COCHRANE, ONTARIO, P0L 1C0									
[J. Russell Skidmore. Tel. (705) 272-6185]									
[PP4-100%]									
2890 (Fpb)	-	-	jP	-	-	-	-	-	-
			bS	2419	-	493	-	-	100/52
				2419	-	493	-		

(cont'd)

Table 4. Container production nurseries by region (cont'd).

Greenhouse capacity (m^2) and style				Seedling production ('000 cavities sown)		Seedling production ('000 shippable seedlings)		Crop schedule	
Heated houses	Unheated houses	Shelter-houses		Heated houses	Unheated houses	Heated houses	Unheated houses	Current crop	Over-wintered
16(P) BLAZECKA'S GREENHOUSE, RR#2, COCHRANE, ONTARIO, P0L 1C0									
[John Blazecka. Tel. (705) 272-3915]									
[PP4-100%]									
1204 (Fpb)	-	-	jP	-	-	-	-	-	-
			bS	1008	-	957	-	-	100/52
				1008	-	957	-		
17(P) EVERGREEN ENTERPRISES INC., P.O. BOX 329, SWASTIKA, ONTARIO, P0K 1T0									
[Gilbert Lavangie. Tel. (705) 642-3426]									
[PP4-98.8%; MP3-0.5%; CPS V93-0.7%]									
4715 (Gpd)	-	-	jP	2518	-	1411	-	35/16	65/50
			bS	5475	-	2461	-	57/20	43/52
				7993	-	3872	-		
18(P) LAFLEUR GARDENS LTD., RR#2, AIRPORT ROAD, TIMMINS, ONTARIO, P4N 7C3									
[Richard Lafleur. Tel. (705) 268-2323]									
[PP4-100%]									
1873 (Gpb)	-	-	jP	857	-	719	-	33/16	67/50
			bS	3167	-	2598	-	55/20	45/50
				4024	-	3317	-		

(cont'd)

Table 4. Container production nurseries by region (cont'd).

Greenhouse capacity (m^2) and style				Seedling production ('000 cavities sown)		Seedling production ('000 shippable seedlings)		Crop schedule	
Heated houses	Unheated houses	Shelter-houses		Heated houses	Unheated houses	Heated houses	Unheated houses	Current crop	Over-wintered
19(P) LA MAISON VERTE, LOT 26, CONCESSION 10, GIRARD ROAD, P.O. BOX 1868, HEARST, ONTARIO, P0L 1N0									
[Ms. Michelle Lamy. Tel. (705) 362-7040]									
[PP4-100%]									
1248 (Gpg)	-	-	jP	-	-	-	-	-	-
			bS	1312	-	451	-	-	100/52
				1312	-	451	-		
20(P) LAVA MOUNTAIN LTD., P.O. BOX 10, RAMORE, ONTARIO, P0K 1R0									
[Don Boothe. Tel. (705) 236-4287]									
[PP4-100%]									
2984 (Gge)	-	-	jP	2530	-	2006	-	51/16	49/50
			bS	2451	-	2044	-	49/20	51/50
				4981	-	4050	-		
21(P) M. KEAN RESOURCES, 624 CEDAR STREET NORTH, TIMMINS, ONTARIO, P4N 6K4									
[Mark Kean. Tel. (705) 264-2048]									
[PP4-100%]									
302 (Ffb)	-	-	jP	256	-	225	-	-	100/50
			bS	-	-	-	-		
				256	-	225	-		

(cont'd)

Table 4. Container production nurseries by region (cont'd)

Greenhouse capacity (m^2) and style				Seedling production ('000 cavities sown)		Seedling production ('000 shippable seedlings)		Crop schedule	
Heated houses	Unheated houses	Shelter-houses		Heated houses	Unheated houses	Heated houses	Unheated houses	Current crop	Over-wintered
22-23(P) MILLSON FORESTRY SERVICE, 1782 DALTON ROAD, RR#1, TIMMINS, ONTARIO, P4N 7C2									
[David Millson. Tel. (705) 264-3426]									
[PP4-100%]									
22(P) *Val Gagne site*									
1605 (Pfh)	-	-	jP	561	-	299	-	50/15	50/50
			bS	1670	-	906	-	50/19	50/52
				2231	-	1205	-		
23(P) *Timmins site*									
302 (Pfb)	-	-	jP	256	-	251	-	100/15	-
			bS	-	-	-	-	-	-
				256	-	251	-		
24(P) NORTHERN GREENHOUSE FARMS LTD., P.O. BOX 1160, TIMMINS, ONTARIO, P4N 5X4									
[R.J. Deluce. Tel. (705) 264-9521]									
[PP4-100%]									
2657 (Gph)	-	-	jP	2216	-	1760	-	56/15	44/52
			bS	2231	-	2023	-	56/19	44/52
				4447	-	3783	-		

(cont'd)

Table 4. Container production nurseries by region (cont'd).

Greenhouse capacity (m^2) and style				Seedling production ('000 cavities sown)		Seedling production ('000 shippable seedlings)		Crop schedule	
Heated houses	Unheated houses	Shelter-houses		Heated houses	Unheated houses	Heated houses	Unheated houses	Current crop	Over-wintered
25(P) NORTH GRO DEVELOPMENT LTD., 75 GOVERNMENT ROAD WEST, KIRKLAND LAKE, ONTARIO, P2N 2E6									
[Abe Aidelbaum. Tel. (705) 567-5646]									
[PP4-100%]									
2890 (Fpb)	-	-	jP	-	-	-	-	-	-
			bS	2427	-	2268	-	-	100/52
				2427	-	2268	-		
NORTHEASTERN REGION									
26(C) THESSALON TREE NURSERY, ONTARIO MINISTRY OF NATURAL RESOURCES, P.O. BOX 310, THESSALON, ONTARIO, P0R 1L0									
[Glenn Connell. Tel. (705) 842-3914]									
[PP4-98%; LT-2%]									
2395 (Fpe/f)	2096 (Fp)	-	jP	2328	1504	2126	1436	41/12	59/48
			rP	380	-	332	-	-	100/49
			wP	204	-	169	-	-	100/49
			bS	-	-	-	-		
				2912	1504	2627	1436		

(cont'd)

Table 4. Container production nurseries by region (concl.).

Greenhouse capacity (m^2) and style				Seedling production ('000 cavities sown)		Seedling production ('000 shippable seedlings)		Crop schedule	
Heated houses	Unheated houses	Shelter-houses		Heated houses	Unheated houses	Heated houses	Unheated houses	Current crop	Over-wintered
EASTERN REGION									
27(C) G. HOWARD FERGUSON FOREST STATION, ONTARIO MINISTRY OF NATURAL RESOURCES, RR#4, KEMPTVILLE, ONTARIO, K0G 1J0									
[A.J. Campbell. Tel. (613) 258-3413]									
[MP1-100%]									
900 (Fpa)	300 (Ff)	1200	jP	-	40	-	36	50/16	50/46
			wP	56	547	56	439	-	100/48
			bS	14	-	14	-	100/20	-
			wS	18	-	18	-	100/20	-
			L	96	-	88	-	100/16	-
			OC	118	-	114	-		
				302	587	290	475		
28(P) WALSH NURSERIES LTD., KEMPTVILLE, ONTARIO, K0G 1J0									
[Irvin Walsh. Tel. (613) 258-3053]									
[MP1-100%]									
566 (Fpa/f)	280 (Fp)	-	jP	48	-	48	-	100/16	-
			rp	78	-	75	-	100/16	-
			wP	48	400	48	348	11/18	89/48
			bS	-	-	-	-	-	-
			L	30	-	28	-	100/16	-
				204	400	199	348		

Table 5. Summary of planting stock production, all sources, for calendar year 1983 by region and type ('000 shippable seedlings).

Region	Containerized		Bare-root		Accel. transplants		Cuttings		Total production
	Number	% of total	Number	% of total	Number	% of total	Number	% of total	
Northwestern	11 505	80.8	2 367	16.6	362	2.6	-	-	14 234
North Central	12 450	52.5	11 274	47.5	-	-	-	-	23 724
Northern	25 349	53.2	22 147[a]	46.5	53	0.1	120	0.2	47 669
Northeastern	4 063	85.3	701	14.7	-	-	-	-	4 764
Eastern	1 312	14.0	7 094	75.8	-	-	952	10.2	9 358
Central	-	-	14 110[b]	98.7	30	0.2	154	1.1	14 294
Southwestern	-	-	6 473	100.0	-	-	-	-	6 473
	54 679	45.4	64 166	53.2	445	0.4	1 226	1.0	120 516

[a]Includes Swastika, Chapleau and Gogama nurseries (OMNR)
[b]Includes Orono and Midhurst nurseries (OMNR)

Table 6. Summary of planting stock production for calendar year 1983 by region, type and source ('000 shippable seedlings).

Region	Containerized		Bare-root		Accel. transplants		Cuttings		Total production
	OMNR	Private	OMNR	Private	OMNR	Private	OMNR	Private	
Northwestern	3 743	7 762	2 367	-	362	-	-	-	14 234
North Central	2 400	10 050	11 274	-	-	-	-	-	23 724
Northern	1 973	23 376	22 147[a]	-	53	-	120	-	47 669
Northeastern	4 063	-	701	-	-	-	-	-	4 764
Eastern	765	547	7 094	-	-	-	952	-	9 358
Central	-	-	14 110[b]	-	30	-	154	-	14 294
Southwestern	-	-	6 473	-	-	-	-	-	6 473
	12 944	41 735	64 166	-	445	-	1 226	-	120 516

[a]Includes Swastika, Chapleau and Gogama nurseries (OMNR)
[b]Includes Orono and Midhurst nurseries (OMNR)

Table 7. Summary of planting stock production, all sources, for calendar year 1983 by region, type and species ('000 shippable seedlings).

Region	Stock type	Species								Total production
		White spruce	Black spruce	Jack pine	Red pine	White pine	Larch	Other conifers	Hard-woods	
Northwestern	Containerized	57	6 440	5 008	-	-	-	-	-	11 505
	Bare-root	292	1 697	-	361	-	-	17	-	2 367
	Accel. transplants	130	122	-	110	-	-	-	-	362
	Cuttings	-	-	-	-	-	-	-	-	-
North Central	Containerized	-	9 830	2 620	-	-	-	-	-	12 450
	Bare-root	3 631	5 278	1 829	518	-	-	12	6	11 274
	Accel. transplants	-	-	-	-	-	-	-	-	-
	Cuttings	-	-	-	-	-	-	-	-	-
Northern	Containerized	-	17 936	7 413	-	-	-	-	-	25 349
	Bare-root	3 334	8 582	10 180	51	-	-	-	-	22 147
	Accel. transplants	-	53	-	-	-	-	-	-	53
	Cuttings	-	120	-	-	-	-	-	-	120
Northeastern	Containerized	-	-	3 562	332	169	-	-	-	4 063
	Bare-root	-	-	370	253	74	-	-	4	701
	Accel. transplants	-	-	-	-	-	-	-	-	-
	Cuttings	-	-	-	-	-	-	-	-	-
Eastern	Containerized	18	14	84	75	891	116	114	-	1 312
	Bare-root	1 325	36	556	1 502	1 514	41	1 984	136	7 094
	Accel. transplants	-	-	-	-	-	-	-	-	-
	Cuttings	-	-	-	-	-	-	-	952	952
Central	Containerized	-	-	-	-	-	-	-	-	-
	Bare-root	3 726	733	115	3 450	2 643	9	2 630	804	14 110
	Accel. transplants	30	-	-	-	-	-	-	-	30
	Cuttings	20	134	-	-	-	-	-	-	154
Southwestern	Containerized	-	-	-	-	-	-	-	-	-
	Bare-root	1 121	-	135	81	3 065	-	895	1 176	6 473
	Accel. transplants	-	-	-	-	-	-	-	-	-
	Cuttings	-	-	-	-	-	-	-	-	-
		13 684	50 975	31 872	6 733	8 356	166	5 652	3 078	120 516

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01 December, 1985